

5.4-5.5 Review Worksheet

Date _____ Period _____

Write the point-slope form of the equation of the line through the given point with the given slope.

1) through: (4, 4), slope = 2

$$y - 4 = 2(x - 4)$$

2) through: (-5, 3), slope = -1

$$y - 3 = -1(x - (-5))$$

$$y - 3 = -1(x + 5)$$

3) through: (1, 1), slope = 4

$$y - 1 = 4(x - 1)$$

4) through: (-4, -3), slope = $-\frac{1}{4}$

$$y - (-3) = -\frac{1}{4}(x - (-4))$$

$$y + 3 = -\frac{1}{4}(x + 4)$$

5) through: (-2, -3), slope = 0

$$y - (-3) = 0(x - (-2))$$

$$y + 3 = 0$$

6) through: (3, 0), slope = $\frac{2}{3}$

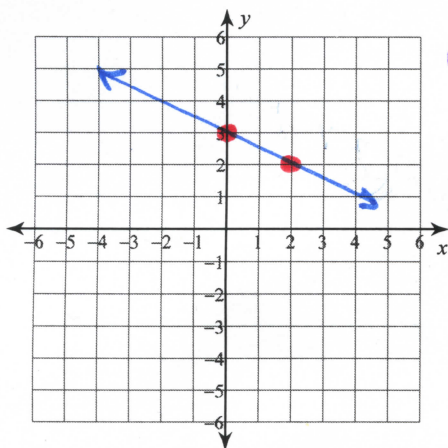
$$y - 0 = \frac{2}{3}(x - 3)$$

$$y = \frac{2}{3}(x - 3)$$

Sketch the graph of each line.

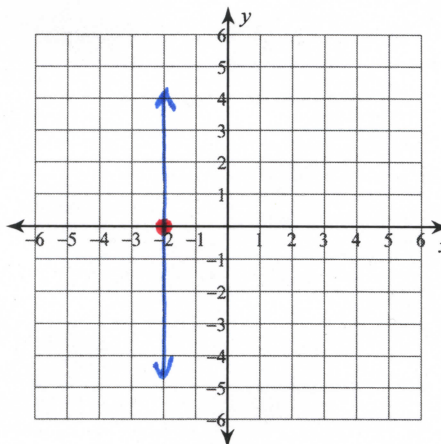
7) $x + 2y = 6$

$$A=1 \quad B=2 \quad C=6$$



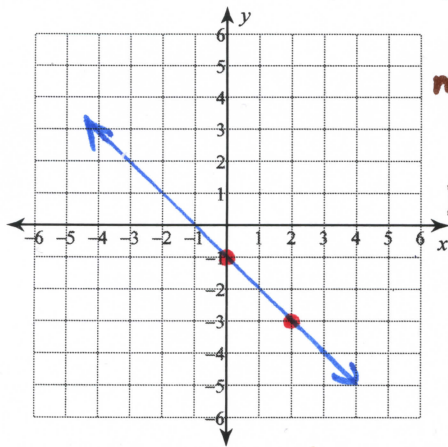
$$m = -\frac{1}{2}$$

$$b = \frac{6}{2} = 3$$

8) $x = -2$ 

9) $x + y = -1$

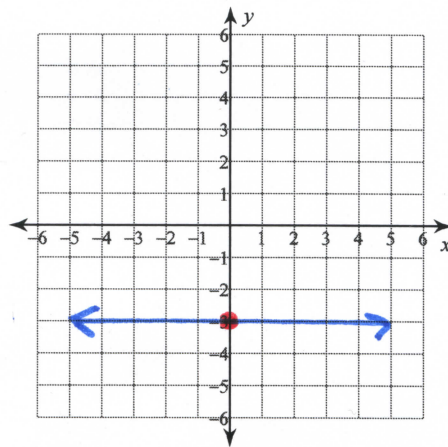
$A=1 \ B=1 \ C=-1$



$m = \frac{-1}{1}$

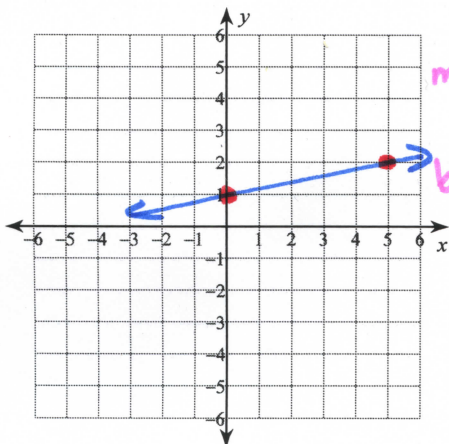
$b = \frac{-1}{1} = -1$

10) $y = -3$



11) $x - 5y = -5$

$A=1 \ B=-5 \ C=-5$

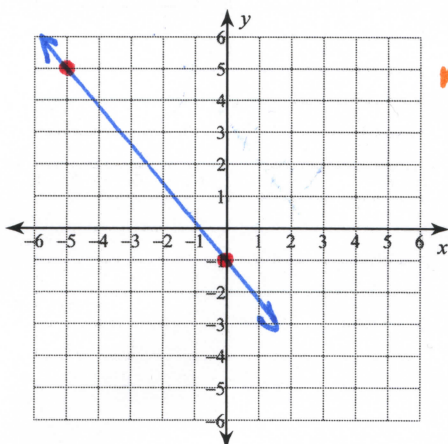


$m = \frac{-1}{-5} = \frac{1}{5}$

$b = \frac{-5}{-5} = 1$

12) $6x + 5y = -5$

$A=6 \ B=5 \ C=-5$

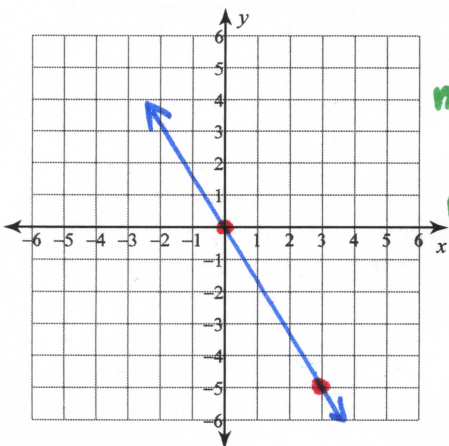


$m = \frac{-A}{B} = \frac{-6}{5}$

$b = \frac{-C}{B} = \frac{5}{5} = 1$

13) $5x + 3y = 0$

$A=5 \ B=3 \ C=0$



$m = \frac{-A}{B} = \frac{-5}{3}$

$b = \frac{-C}{B} = \frac{0}{3} = 0$

14) $y = -5$

